



Channel Islands National Marine Sanctuary Sanctuary Manager's Report



Volume 3, Number 4

A report for the Sanctuary Advisory Council and Sanctuary Constituents

Reporting period: July 2 to September 2, 2005

ABOUT THE SANCTUARY

Designated in 1980, the Channel Islands National Marine Sanctuary (CINMS or sanctuary) consists of an area off the coast of California of approximately 1,252.5 square nautical miles adjacent to the following islands and offshore rocks: San Miguel Island, Santa Cruz Island, Santa Rosa Island, Anacapa Island, Santa Barbara Island, Richardson Rock, and Castle Rock, extending seaward to a distance of six nautical miles. The islands vary in distance from 12 to 40 nautical miles offshore from Santa Barbara and Ventura counties in southern California.

A fertile combination of warm and cool currents in this area results in a great variety of plants and animals including kelp forests, fish and invertebrates, pinnipeds, cetaceans and sea birds. The sanctuary also has a wealth of maritime heritage resources including Chumash Native American artifacts and over 100 historic shipwrecks. Human uses in the area include commercial and recreational fishing, marine wildlife viewing, boating, diving, kayaking, maritime shipping, nearby offshore oil and gas development, research and monitoring, and numerous educational activities.



NATIONAL MARINE
SANCTUARIES™

CHANNEL ISLANDS

1980 ★ 2005

25th Anniversary

Discover the Past, Chart the Future!

RESEARCH AND MONITORING

Collaborative Marine Research Program

The Channel Islands Marine Sanctuary Foundation (Foundation) supports a program to involve stakeholders in cooperative marine research, resource assessment, and protection. The program, called the Collaborative Marine Research Program (CMRP), is based on a partnership between local marine researchers, recreational and commercial fishermen, Sea Grant Extension Marine Advisors, and the regional resource management agencies: Channel Islands National Marine Sanctuary (CINMS or sanctuary), Channel Islands National Park (CINP or park), National Marine Fisheries Service (NMFS), and the California Department of Fish and Game (CDFG).

In July, the CMRP issued a request for proposals related to Marine Protected Areas (MPAs). In particular, the Foundation was interested in two types of projects: 1) collaborative research assessing fishing effects and intensity across the Channel Islands MPA network, and 2) education and outreach related to MPAs and/or collaborative research. Up to \$90,000 in funds were available for projects. Through this request for proposals the CMRP was seeking to support collaborative research that provides scientific data needed to evaluate the MPAs. Ten excellent proposals were received and were reviewed by a nine-member Planning Committee composed of representatives from the sanctuary, the park, CDFG, NMFS, the Foundation, Sea Grant Extension Program, local commercial and recreational fishing interests, and scientists and environmental organizations. Reviews were based on the proposals' technical merits, costs, and the level of involvement of fishing partners.

Window on the Sanctuary

Channel Islands National Marine Sanctuary and National Park
Celebrating 25 Years: Discover the Past, Chart the Future.
Photo: CINMS Library.



The Planning Committee selected four projects for funding:

1. Variation in larval supply inside and outside of a marine protected area within the Channel Islands National Marine Sanctuary; Project Leaders: Henry Mark Page, Stephen Schroeter, Jenifer Dugan, Carolyn Culver.
2. Improving fisheries management through collaborative research: Facilitating dialogue between scientists and members of the commercial fishing industry; Project leaders: Chris Miller, Chris Hoeflinger, and Carolyn Culver.
3. MPA benefits for recreational fishers of calico bass; Project Leaders: Captain David Bacon, Patricia Halpin and Carolyn Culver.
4. Goleta Pier, a Platform For Education and Conservation; Project Leaders: Ken Jones and Boyd Grant.

The Foundation will be working with the project leaders of these four projects to implement this collaborative work.

In addition to funding the above four collaborative projects, the CMRP Planning Committee decided to hire a Project Manager to coordinate the selected project leaders, work with other individuals and organizations involved in collaborative research, and submit funding proposals to increase support for the CMRP.

Research and Monitoring Activities

Reserves Monitoring: R/V *Shearwater* provided support for three weeks of marine reserves related monitoring cruises. CINMS partnered with scientists from the University of California at Santa Barbara (UCSB) to conduct SCUBA surveys in and around MPAs. Scientists from the Partnership for Interdisciplinary Studies of Coastal Oceans (PISCO) and the UCSB Marine Science Institute conducted ten days of diving surveys. Scientists from the U.S. Geological Survey (USGS) conducted sidescan sonar operations aboard the R/V *Shearwater* in the Santa Barbara Channel from August 7 to 27. Excellent weather conditions allowed them to map an area twice the anticipated amount. The team conducted three days of video groundtruthing in the mapped area and discovered rock pinnacle areas with important fish species.

Monitoring of Nesting Success of Ashy Storm-petrels at Santa Cruz Island: In July scientists with the U.S. Fish and Wildlife Service (USFWS) and CINP spent four days visiting five locations along the north coast of Santa Cruz Island: Bat Cave and Cavern Point Cove Caves (near Cavern Point); Orizaba Rock (near Twin Harbors); Cave of the Bird's Eggs (near Profile Point); and Dry Sandy Beach Cave (near West End). The purpose of these surveys is to monitor the nesting activities of ashy storm-petrels. Results of this research will be provided to CINMS in an annual report.

Plumes and Blooms

R/V *Shearwater* supported three Plumes and Blooms cruises since the last Manager's Report.

Sanctuary Aerial Monitoring

Record breaking heat waves in July that gave way to a prevailing marine layer over the islands, coupled with excessive winds, limited flight opportunities during the current reporting period (July 2 to September 2, 2005). During this time the CINMS flight crew flew four aerial monitoring flights aboard the sanctuary's amphibious fixed wing Lake Renegade Sea Wolf aircraft for a total of 12.2 hours. Two flights included marine reserve monitoring and three included surveys over the four northern islands: Anacapa, Santa Cruz, Santa Rosa and San Miguel. The survey flights are part of the Sanctuary Aerial Monitoring and Spatial Analysis Program (SAMSAP) that allows near real-time collection and viewing of data vital to sanctuary management and resource protection. SAMSAP is utilized for three principle research efforts: 1) vessel traffic and socio-economic activities monitoring; 2) marine mammal sighting; and 3) kelp canopy monitoring.

Research and Monitoring Program Annual Report

An annual report on the research and monitoring activities supported by CINMS in 2004 has been finalized. The report is being printed and will be made available soon. The report will also be posted on the CINMS web site.



Deep-Water Monitoring Workshop Report

In 2003, the State of California established twelve MPAs in state waters (0-3 nautical miles offshore) surrounding the Channel Islands. The National Oceanic and Atmospheric Administration (NOAA) is considering extending this network (from 3-6 nautical miles offshore) into deeper waters of the CINMS. In order for effective long-term management of the deep-water MPAs to occur, a well-structured monitoring program is required to assess effectiveness.

CINMS and the National Marine Sanctuary Program (NMSP) hosted a 2-day workshop in April 2005 to develop a monitoring plan for the federally proposed MPAs in the sanctuary. Conducted at UCSB, participants included scientists from academic, state, federal, and private research institutions. Workshop participants developed project ideas that could answer priority questions posed by the NMSP. The workshop report is currently being reviewed by workshop participants and the CINMS Sanctuary Advisory Council's Research Activities Panel (RAP). Reviewer comments will be incorporated before the document is finalized. The final report will be used to develop a deep-water MPA monitoring plan. The report will be published as a part of the National Marine Sanctuary Conservation Series, and posted on the web at: <http://www.sanctuaries.noaa.gov/special/special.html#series> and the NMSP will also provide hard copies of the report.

Research Assistant

The CINMS announced a vacancy in the site's Research Assistant position and received several well-qualified applicants. Site staff are working to review these applications, interview potential candidates, and select a new research assistant.

VESSEL AND AIRCRAFT OPERATIONS

Interagency Vessel Support

United States Geological Survey (USGS)

USGS scientists from Redwood City and Santa Cruz came aboard the R/V *Shearwater* to conduct camera operations to characterize the sea floor near oil and gas platforms, August 06-27.

Monterey Bay National Marine Sanctuary (MBNMS)

R/V *Shearwater* departed on September 1st for Monterey Bay, where she will spend two-and-a-half weeks working in MBNMS with sanctuary staff members.

Vessel Maintenance

The *Shearwater* successfully completed her last yard period, during which three coats of anti-fouling paint were applied to both hulls below the waterline. Upon completion of the job, operators noted increased vessel speed and enhanced ability for the engines to handle increased loads.

Aircraft Maintenance and Operations

From July 5th through 8th Lt Julie Helmers, Sanctuary Pilot, flew the CINMS Lake Renegade Sea Wolf aircraft for three water training flights in Calaveras County, California. In late July the aircraft underwent a standard inspection that occurs after every 50 hours in flight. On August 31st Lt Helmers escorted Dana Wilkes, the head of the National Marine Sanctuary Program's Small Boat Program, on a flight over the islands to familiarize him with the sanctuary's aircraft and its aerial monitoring mission. Unfortunately, the weather was not cooperative during the familiarization flight and only allowed a quick peek of northern Santa Cruz Island.



RESOURCE PROTECTION

Enforcement

A Memorandum of Understanding between CDFG and the Monterey Bay Sanctuary Foundation concerning the use of money to enhance enforcement, education, and outreach within CINMS is now official. CINMS has transferred funding to the Monterey Bay Sanctuary Foundation that will amount to approximately two years of State CDFG enhanced enforcement support within sanctuary waters.

SANCTUARY ADVISORY COUNCIL

Open Seat Recruitment

CINMS is now accepting applications for the appointment of two positions on the Sanctuary Advisory Council (Advisory Council): Chumash Community member and Education member. To apply for membership on the Advisory Council, request and return an application form no later than October 28, 2005. Appointments will be finalized in December 2005. To receive an application kit please contact Jacklyn Kelly at: (805) 966-7107, ext. 371, via e-mail at jacklyn.kelly@noaa.gov, or check the CINMS web site at <http://www.channelislands.noaa.gov/sac/main.html>. Completed applications should be mailed, faxed or e-mailed to: Sanctuary Advisory Council Specialist, CINMS, 113 Harbor Way, Santa Barbara, CA 93109, Fax: (805) 568-1582 or via e-mail to jacklyn.kelly@noaa.gov.

University of Michigan Sanctuary Advisory Council Study

A team of graduate students from the University of Michigan's School of Natural Resources and Environment is conducting a masters' project to study NOAA Sanctuary Advisory Councils and Bureau of Land Management (BLM) Resource Advisory Councils (RACs). The faculty advisor for the project is Professor Julia Wondolleck. She teaches courses in environmental conflict management, negotiation skills, and mediation skills, and is the co-author of Making Collaboration Work: Lessons from Innovation in Natural Resource Management (Island Press, 2000). Wondolleck and several team members met with NMSP Director Dan Basta in April to discuss the project. Josh Kweller, one of the graduate students on the team, attended the July CINMS Advisory Council meeting during which he briefly introduced himself and the project. The project will include five phases: 1) development of research questions and broad analytical framework; 2) background research; 3) surveys and survey analysis; 4) case studies; and 5) comparative analysis. The types of questions to be addressed during the project include:

- What have been the range of experiences and accomplishments of the councils?
- What challenges have they encountered and how have they been overcome?
- What have been the benefits and the costs to individual participants and the federal agencies?
- What factors facilitate the effectiveness of an advisory council process?
- What suggestions do RAC and Sanctuary Advisory Council participants have for enhancing the ability of advisory councils to productively contribute to management of natural and cultural resources?
- What are the lessons from the Sanctuary Advisory Council and RAC experience that can be extended to advisory council processes in other realms?

The team will conduct a mail survey, to be distributed soon after Labor Day, for Advisory Council and RAC representatives. Team members will also conduct case studies of the following Advisory Councils: Channel Islands, Monterey Bay, Olympic Coast, and Stellwagen Bank, as well as a less in-depth study of Gulf of the Farallones and Cordell Bank (as part of the Monterey Bay case study). The case studies will involve interviews with Advisory Council representatives, Advisory Council Coordinators, and other NMSP staff as appropriate.



MARITIME HERITAGE RESOURCES PROGRAM

Education and Outreach



Moments In Time staff and Robert Schwemmer positioning the *Shearwater* model in the underwater archaeology exhibit. Photo: Robert Schwemmer.

Upgrades to CINMS's *Cuba* shipwreck and underwater archaeology exhibits at the Santa Barbara Maritime Museum have been completed. Exhibit contractor Moments In Time installed a new diorama of Anacapa Island positioned just behind the model of the R/V

Shearwater for the underwater archaeology exhibit and added divers and crew to the *Shearwater* model. Both exhibits received enhanced water treatments to simulate the ocean surface and the *Cuba* model upgrades included passengers and crew, wheelhouse navigation equipment, and kelp

added to the underwater shipwreck diorama.

Robert Schwemmer, CINMS Maritime Heritage Resources Coordinator, gave a presentation to the new docents and staff of the Santa Barbara



The model of the *Cuba* appears to be plowing through moderate seas. Photo: Robert Schwemmer.

Maritime Museum, highlighting the sanctuary's maritime heritage program. The lecture featured the history and archaeological work being conducted on several shipwreck sites at the Channel Islands and along the mainland coast. The docents also received public interpretation training for the *Cuba* and Underwater Archaeology exhibits.

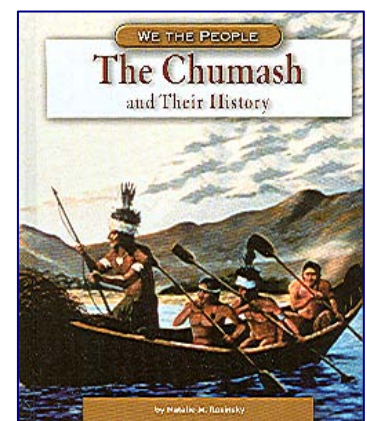


The *Cuba* throughout her career carried passengers as depicted in the model lounging on deck (right). Photo: Robert Schwemmer.

Cuba Shipwreck

<http://www.channelislands.noaa.gov/shipwreck/dbase/cinms/cuba1.html>

Photographs captured by Schwemmer of the September 11, 2004 tomol crossing have recently been published in two publications. Compass Point Books published a book for reading level 4-6 years of age entitled, We The People – The Chumash and Their History, authored by Natalie M. Rosinsky. A second publication, MAINS'L HAUL journal of Pacific Maritime History and published by the Maritime Museum of San Diego, featured an article entitled, "The Crossing" authored by Julie Cordero-Lamb. The Union Tribune in San Diego plans to publish some of the images in an upcoming article featured in the science section. Several of Schwemmer's photographs of the brigantine *Irving Johnson* that struck a sandbar while entering the Channel Islands Harbor in March were published in *Professional Mariner*, *Sea Magazine* and the cover of *Sea History*.



Compass Point Books

<http://www.compasspointbooks.com/>

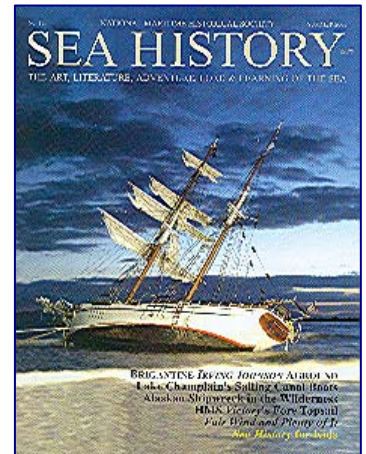
MAINS'L HAUL

<http://www.sdmaritime.com/ContentPage.asp?ContentID=33>

The aircraft carrier USS *Ronald Reagan* made a visit to the city of Santa Barbara. She is the newest of the Nimitz-class carriers which are the largest and most powerful warships ever built. Schwemmer, representing the sanctuary and as a member of the board of trustees for the Santa Barbara Maritime Museum, was invited by the Santa Barbara Navy League to tour the ship and meet some of the crew. The local Navy League adopted the warship and to date has raised more than \$3 million dollars to buy equipment for the crew members and provide scholarships. Santa Barbara has a long tradition in hosting visiting navy ships, including President Theodore Roosevelt's Great White fleet in 1908.



USS Ronald Reagan offshore from Santa Barbara Harbor. Photo: Robert Schwemmer.



Schwemmer and Channel Islands Naturalist Corp volunteers participated as exhibitors in the American Sail Training Association's (ASTA) Tallship Festival in Channel Islands Harbor. They highlighted the CINMS Maritime Heritage Program and conducted shipwreck plotting activities.

Regional Maritime Heritage Program

Schwemmer participated in a three-day workshop held in Monterey California on the social science of MPAs for the U.S. Pacific Coast, hosted by NOAA's National MPA Center. Specific research projects were evaluated for future development into grant proposals and agency budget initiatives. Schwemmer provided an overview of current maritime heritage resource projects in California national marine sanctuaries and made recommendations for expanding the Channel Islands shipwreck monitoring project to other MPA sites in the Pacific region.



The vessel *Bill of Rights* was one of several tallships visiting the Channel Islands Harbor. Photo: Robert Schwemmer.

Schwemmer provided text and images for the release of the soon-to-be published West Coast Natural History Newspaper Field Guide that includes a section on west coast maritime heritage resources.

National Maritime Heritage Program

Schwemmer has been working with Dr. Hans Van Tilburg, Pacific Islands Region Maritime Heritage Coordinator, and Bruce Terrell, Senior Archaeologist for the National Marine Sanctuary Program, to develop a web page that captures the historical whaling history that has linkages to several national marine sanctuaries. Schwemmer is also working with the National Maritime Heritage Program team and the Ocean Channel to expand the Encyclopedia of the Sanctuaries project to include maritime heritage resources.

Annual Chumash Tomol Crossing of the Santa Barbara Channel

On September 10th the sanctuary vessel R/V *Xantu* supported a group of Chumash paddlers as they made their annual



Schwemmer had a surprise visit from President Abraham Lincoln at the CINMS' exhibit both that was manned by the Naturalist Corp and sanctuary staff. Photo: Robert Schwemmer.

crossing from Channel Islands Harbor to Santa Cruz Island (known as *Limuw* in Chumash dialects), their native homeland. The paddlers made the crossing in a 20-foot, handmade wooden canoe, called a *Tomol* that carries four to six paddlers at a time. The group completed the crossing in approximately 11 hours. When the *Tomol* reached Santa Cruz Island, it was welcomed by over 100 cheering members of the Chumash community singing native Chumash songs on the beach.

EDUCATION, VOLUNTEER AND OUTREACH PROGRAMS

Special Events

2005 From Shore To Sea Lecture Series: 25 Years of Research and Monitoring in the Channel Islands

The sanctuary and park are celebrating their 25th anniversaries in this year's "From Shore to Sea" lecture series by featuring speakers who have made significant contributions to protecting sanctuary and park resources. The 2005 lecture series has been expanded to include lectures in both Santa Barbara and Ventura. The lectures are scheduled at 7:00 p.m. on the second Tuesday and Wednesday of each month in Santa Barbara and Ventura, respectively. The Tuesday night Santa Barbara lectures are held at the Chase Palm Park building at 236 E. Cabrillo Blvd. The Wednesday night Ventura lectures are at the park's Robert J. Lagomarsino Visitor Center located at 1901 Spinnaker Drive in Ventura Harbor. The lectures are free and open to the public. For more information visit: www.channelislands.noaa.gov/focus/calendar.html. The schedule of speakers is posted in the box at right.

Conferences

National Marine Educators Association (NMEA) Conference

The NOAA Office of National Marine Sanctuaries was a co-sponsor of the NMEA conference held July 10-17, 2005 on Maui, Hawai'i. NMEA brings together those interested in the study and enjoyment of the world of water, both fresh and salt, and provides a valuable focus for marine and aquatic studies worldwide. There were three sanctuary strands throughout the conference, which highlighted 25 hands-on sessions ranging from: linking research and education, to shark science and ocean observing of rocky intertidal and sandy beach ecosystems for teachers, to the tracking of albatross. Other NOAA offices such as the NOAA Coral Reef Conservation Program, National Ocean Service and NOAA Office of Education and Sustainable Development also offered a wide variety of sessions throughout the NMEA conference.

Laura Francis and Julie Bursek, CINMS Education Coordinators, presented two sessions at the conference: one titled "Channel Islands Marine Reserves: Linking Research and Education" and the other titled "Exploring Data with Geographic Information Systems to Experience Sanctuaries." Both sessions were attended by teachers, agency representatives, and informal educators.

From Shore to Sea 2005 Lecture Series 25 YEARS of RESEARCH & MONITORING in the CHANNEL ISLANDS

Recent and Upcoming Lectures

Dates	Speaker(s)
Sept 13, 14	Connally Family, Island Packers Co.
Oct 11, 12	Dan Basta, Director NMSP & Chris Mobley, Manager, CINMS
Nov 8, 9	Steve Junak, Herbarium Curator, Santa Barbara Botanic Garden
Dec 13, 14	Frank Gress, Sea Bird Biologist, Channel Islands National Park

Santa Barbara Lectures (Tuesdays)

7 pm at Chase Palm Park Center, 236 E. Cabrillo Blvd., Santa Barbara

Ventura Lectures (Wednesdays)

7 pm at Channel Islands National Park, Robert J. Lagomarsino Visitor Center, 1901 Spinnaker Drive, Ventura

For more information including speaker topics go to:
<http://www.channelislands.noaa.gov/focus/calendar.html>

Meetings

National Marine Sanctuary Program California Signage Plan Meeting

Laura Francis represented the Channel Islands National Marine Sanctuary at the California Signage Plan Meeting in Monterey, California on August 9th. The group chose a preferred layout for signs produced under the California Signage Plan. Laura Francis and Julie Bursek met with Leslie Stone and Associates, graphic designer for the California Signage Project, on August 11th to tour the sign location sites for CINMS and meet with local partners. The sanctuary is developing interpretive signs for the CINP Visitor Center, Santa Barbara Zoo, Long Beach Aquarium of the Pacific, and at boat launch ramps in Santa Barbara, Ventura and Channel Islands harbors.

Media Events and Coverage

Coastal Services Magazine

Channel Islands National Marine Sanctuary was featured in an article in the June issue of Coastal Services magazine. The article focused on how national marine sanctuaries, specifically CINMS, have brought Geographic Information Systems (GIS) into educational programs and marine science curricula.

Santa Barbara News-Press

Laura Francis worked with CINP staff on a "Plugged In" page for the Santa Barbara News Press that will be published in early September. This page is produced on a monthly basis by Santa Barbara Educators Roundtable, a group of more than 20 educational organizations, to promote learning among young readers in natural science, history, technology, and art. The page will feature information and a children's activity highlighting the 25th Anniversary of the sanctuary and park.

New Products

New DVD: Exploring the Channel Islands National Marine Sanctuary

Laura Francis coordinated the upgrade of the "Exploring the Channel Islands National Marine Sanctuary" CD-ROM to a new DVD edition. The DVD includes updated content and additional videos and images from the sanctuary and is compatible with current operating systems on both Mac and PC.

Silver Anniversary Issue of Alolkoy Newsletter

A full-color, 24-page issue of the sanctuary's semiannual newsletter, *Alolkoy*, has recently been distributed. Highlights include a double-sided poster that includes an article by Congresswoman Lois Capps, 25 years of biological monitoring, 25 ways to connect and protect with the Channel Islands, and a historical timeline of sanctuary highlights from 1980-2005.

Channel Islands Naturalist Corps (CINC) Volunteer Program

July and August Whale Watch Vessel Excursions

CINC volunteers offered daily interpretation to passengers on the *Condor Express* out of Santa Barbara Harbor during the months of July and August, and will continue to do so through September. They also provided interpretation from Santa Barbara Harbor on the *Rachel G* three times per week during July and the first three weeks of August. They also served as interpreters on 13 all-day whale watch trips with Island Packers out of Ventura Harbor.

Additionally, 17 specially trained CINC volunteers have been conducting whale photo-identification research on the *Condor Express*. This research, which involves photographing blue whales' dorsal fins and humpback whales' flukes, helps Cascadia Research Collective (based in Olympia, Washington) identify and monitor cetaceans (whales and dolphins) in the Santa Barbara Channel.

July and August Island Programs

Eleven CINC volunteers conducted 19 formal interpretive hikes on Anacapa, Santa Cruz, and Santa Rosa islands during July, and 22 hikes during August, working with both Island Packers out of Ventura area harbors and Truth Aquatics out of Santa Barbara Harbor. Beginning in September, naturalists will also lead hikes on San Miguel Island.

Six CINC members assisted with CINP's underwater video program on Anacapa Island. They worked as divers, line tenders, and topside naturalists. In its 20th year, the underwater video program is the flagship interpretive program of CINP and is mainly staffed by volunteers. Divers with a camera and microphone "hike" the kelp forest in the Landing Cove, relaying the live images to video monitors on the dock above, where the audience watches and talks to the divers with the help of a topside naturalist. Education about the kelp forest, ecology, and MPAs are all included in this half-hour program. Thousands of island visitors experienced the program, which aired its last show of the summer on September 1st.

CINC Monthly Training Meetings

CINC monthly volunteer in-service training meetings are scheduled for the third Tuesday of each month from February through September. The July 6th meeting featured John Calambokidis (biologist with Cascadia Research Collective) who trained 25 CINC volunteers on using the CINMS digital Nikon camera for identifying whales in the Channel. Calambokidis also gave instruction on how to record the supporting data. The July 19th meeting included a lecture presented by Dr. Robert Warner (UCSB biology professor, Advisory Council research member, and Advisory Council Research Activities Panel, or RAP, Chair). Warner spoke about PISCO and MPAs at the Channel Islands, including why each MPA site was chosen, how each is being monitored, and what the initial data suggest. The booklet, "The Science of Marine Reserves," was distributed to all of the volunteers. The August 16th meeting featured a lecture by Dr. Fred Piltz on the oil and gas resources in the Channel. Piltz (Minerals Management Service scientist and representative on the Advisory Council, and RAP member), answered a great deal of questions about the leases and the impact of drilling in the Channel. Prior to the meeting, Shauna Bingham (CINMS Volunteer and Outreach Coordinator) and Tina Reed (former CINMS volunteer and outreach staff member) introduced the volunteers to their newborn daughters, Jenna Audrey and Emma Rose.

Multicultural Education for Resource Issues Threatening Oceans (MERITO)

Rocio Lozano (CINMS MERITO Community Liaison), Laura Francis, Jonna Engel (CINMS Education Specialist) and Clare Fritzsche (CINC Volunteer Administrative Assistant) participated in a MERITO booth at the "Dia de Familia" event at the Santa Barbara Museum of Natural History on July 31st. The group passed out educational materials and presented the watershed resource model and Channel Islands Puppet Show.

Outreach

Refugio Junior Lifeguards, July 1

CINC volunteer John Kuizenga represented CINMS and CINP at a special presentation at the Santa Barbara Maritime Museum for the Refugio Junior Lifeguards. Kuizenga gave a slide show about the islands, and spoke about their ecosystems and the need to preserve and protect them, and about MPAs. In September, Kuizenga will be joined by fellow volunteer Dan Fontaine when they escort the lifeguards out to the east end of Santa Cruz Island on the vessel *Conception*. Kuizenga will offer informal interpretation while on the water; Fontaine will lead participants on a formal hike.

Ventura County Boat Show, July 7 - 10

Hundreds of visitors attended the Ventura County Boat Show in Channel Islands Harbor, and naturalist volunteers were on hand each day to educate folks about the islands, handing out the "Boating and Safety" and "Protecting Your Channel Islands" brochures, along with the park's *Island Views* newspaper.

ASTA Tall Ships Festival 2005, August 5 - 8

14 CINC volunteers greeted visitors to Channel Islands Harbor who came to see several tall ships from around the world. The naturalists hosted an informational booth that offered bathymetric posters of the Channel to those who engaged in an exercise on shipwrecks in sanctuary and park waters. From a brief description of the sunken vessels, visitors were given the latitude and longitude and asked to find the shipwrecks on a nautical chart.

Ventura County Fair, August 3 - 14

Collaborating with CINP, California State Parks, and Santa Monica Mountains National Recreation Area, CINMS hosted an interactive and educational booth at the Ventura County Fair at Seaside Park. There were a variety of hands-on activities, from mask-making to matching games. About 400 "Protecting Your Channel Islands" brochures were distributed to visitors; two dozen posters (an aerial view of the four northern islands) were given away as prizes on Natural Resources Day, August 4th. The booth won first prize for best educational presentation.

Ventura County Regional Office Update

Clare Fritzsche, administrative support for the CINC, has changed her hours at the office in Channel Islands Harbor. She now works from 8:00 am – 4:00 pm, Monday – Friday.

MANAGEMENT PLAN REVIEW

The sanctuary's draft management plan (DMP) and Draft Environmental Impact Statement (DEIS) are advancing through the agency's internal clearance review process in preparation for release to the public. CINMS staff have addressed and/or incorporated all NOAA attorney reviewer comments on the documents, which the NMSP recently resubmitted to NOAA's General Counsel for Ocean Services for their final authorization. Although the current head of the National Ocean Service, Dr. Richard Spinrad, has already been briefed on the package, he will no longer hold that position as of October 1 and, consequently, his replacement must be briefed shortly upon arrival. CINMS anticipates final NOAA and Department of Commerce clearance to be granted for public release of the documents in October, but cannot predict with certainty when that will occur. Upon granting of internal clearance CINMS will announce dates for public hearings, one in Ventura and one in Santa Barbara. Two upcoming SAC meetings will also include focused discussions of the documents once they are cleared for public release.

At the September 23rd SAC meeting, Sanctuary staff will provide an overview of the management plan revision process and DMP/DEIS documents, to include explanation of the project's status, summary of proposed Action Plans, summary of proposed regulatory changes, next steps in the process, and discussion of the role of the Advisory Council and Working Groups during the public comment period.

Biogeography Study

Sanctuary boundary redefinition was raised as an issue to be considered in the CINMS management plan review process during public scoping meetings the sanctuary held in 1999. In 2002 NOAA and the NMSP determined that a rigorous analysis of boundary alternatives would require a biogeographic study of the Channel Islands region. NOAA's National Centers for Coastal Ocean Science (NCCOS) initiated this biogeographic study in January 2003. All scientists who provided data utilized in the study have been contacted for final review comments, and comments received have been addressed and or incorporated into the final report, which is currently being prepared for printing. CINMS staff are awaiting final announcement of the report's availability, possibly in October. The Biogeography Team provided a presentation at the May 20th SAC meeting that explained the study's findings. That presentation is available on line at: http://biogeo.nos.noaa.gov/projects/assess/ca_nms/cinms/.

After conclusion of the management plan revision process, a Supplemental Environmental Impact Statement (SEIS) will present and analyze sanctuary boundary change alternatives (including the option of not changing the sanctuary

boundary). The SEIS on boundaries will then be released for public comment, followed by a final agency determination on sanctuary boundary change. Release of an SEIS to consider boundary alternatives would not occur until 2007 at the very earliest.

International Visitors

On September 8-9, 2005 a delegation of eight Canadians from the Coordinating Committee (or advisory committee) of the Saguenay-St. Lawrence Marine National Park visited CINMS and CINP. Staff and management from the sanctuary and park provided informational presentations and led discussions on how resource management is conducted and how the Sanctuary Advisory Council functions. The Canadian delegation also enjoyed a field trip to the sanctuary and scenic coastal hiking within the park on Santa Cruz Island. The delegation wishes to continue exchanges of this nature so that each site can learn from the others.



NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA) AND NATIONAL MARINE SANCTUARY PROGRAM (NMSP) NEWS



Underwater Acoustic Methods Developed to Monitor and Assess Gray's Reef National Marine Sanctuary (GRNMS) Resources

National Centers for Coastal Ocean Science (NCCOS) scientists, along with Estuarine, Coastal and Ocean Science, Inc., are developing underwater acoustic methods to monitor and assess fish abundance and distribution at GRNMS off the Georgia coastline. Passive acoustics are being used to detect and classify spawning calls (sounds) of indigenous fishes to monitor spawning activity of reef fishes in real-time. Active acoustics are being used to measure relative fish abundance associated with sound production. On June 7-8, the NCCOS and GRNMS scientists surveyed the area onboard the NOAA R/V *Joe Ferguson* using a previously deployed passive acoustic recorder. Transect data collected at various depths and over various benthic habitat types are being used to characterize fish distribution in relation to bottom features.

NOAA Tests New Navigation Product

The NOAA Office of Coast Survey is testing a potential new product named the BookletChart™. This innovative product will enable recreational boaters to print charts at home for no charge. It has been created to help recreational boaters better navigate and practice safer transportation on the water. The BookletChart™ is a form of nautical chart that has been reduced in scale and divided into a series of pages for convenience, but retains all the information of the full-scale nautical chart. Currently, Chesapeake Bay BookletCharts™ are available for evaluation at <http://www.nauticalcharts.gov/bookletcharts/>. If the test pilot is successful, BookletCharts™ will be available via the Internet as Adobe Acrobat files.

NOAA Promotes Integrated Ocean Observing System in California

On August 4, a representative from the NOAA Office of Coast Survey discussed the concept of an Integrated Ocean Observing System (IOOS) with the Port Hueneme Harbor Safety Committee. The request for the presentation originated from a National Harbor Safety Committee meeting held in April 2005 in Long Beach. The presentation focused on success stories from the Great Lakes region, the Northeast, and Gulf States. Following the presentation, participants discussed new technology affecting safe navigation and commercial decisions, tidal surge into the Port, the Physical Oceanographic Real-Time System concept, better real-time winds information, offshore visibility (fog), better predictions, and real-time values. In October, the NOAA Office of Response and Restoration will host a similar meeting with the California Harbor Safety Committee.

NMSP Ocean Etiquette Program

The NMSP's Columbine Culberg is working with staff from Florida Keys National Marine Sanctuary, the National Marine Fisheries Service (NMFS), the International Dolphin and Whale Conservation Society, and dolphin tour providers to develop a voluntary dolphin tour operator and provider recognition program. Culberg is also working on the

development of General Marine Wildlife Viewing Guideline symbols and a draft pocket card which is anticipated to be available to the public by next spring. Additionally, Culberg completed and sent out for review a California Marine Wildlife Viewing Guideline Matrix. The matrix is based on existing guidelines and feedback from NOAA staff throughout California. The goal of the matrix is to establish marine wildlife viewing and general activity guidelines for NOAA to use within the State of California.

NMFS Office of Protected Resources National Education Coordinators Meeting

Columbine Culberg joined 15 education representatives from NMFS Southwest Region office to participate in development of a national strategic education plan. The workshop marked the first ever NMFS national education meeting. The workshop included presentations on current regional/site outreach and education efforts, developing a vision statement, identifying key challenges at each office and at the national level. Workshop participants jointly developed goals, objectives and action plans for each core challenge identified. The workshop was very productive and all present learned a great deal about the many challenges NMFS faces in education. During the workshop Culberg was able to highlight the tremendous resource the National Marine Sanctuary Program can be for NMFS education staff. In terms of partnerships and communication, which were two of the main goals identified and which are related to many of the identified objectives, the NMSP has an opportunity to provide support and guidance to NMFS as they embark on developing an education program throughout the country. One of the key tools identified for solidifying the NMSP/NMFS partnership was the NMSP's Ocean Etiquette Program.

Southern California Ocean Communicators Alliance

Columbine Culberg and Sarah Marquis coordinated the first steering committee meeting for the Southern California Ocean Communicators Alliance. It was decided that the committee will support a monthly email newsletter that starting in October will go out to all members of the alliance highlighting ocean related developments, resources, and events for the following topics: education, policy, wildlife, outreach and volunteerism, entertainment and film, research, and culture. The committee plans to address future actions including workshops and meetings in the next meeting.

NOAA NMSP Launches Online Marine Life Field Guide

The NOAA National Marine Sanctuary Program has unveiled a new, online resource that highlights the diverse marine life of America's ocean and Great Lakes treasures. The Encyclopedia of the Sanctuaries is available online and is part of a continuing NOAA effort to enhance public awareness, understanding and appreciation of the marine environment. This online field guide provides photos, streaming video and important biological information for over 100 marine species from each of the national marine sanctuaries in the United States, ranging from spiny lobster to killer whales and white-tipped reef sharks to sea turtles. This is a fantastic resource for formal and informal educators, students of all ages, zoos and aquaria, science centers, and natural history museums. Visit <http://sanctuaries.noaa.gov/education>, to explore this exciting online field guide.

National Marine Sanctuaries Field Studies Program Promotes Ocean Literacy

Twenty-four teachers and students participated in the National Marine Sanctuaries Field Studies Program held August 4-9, 2005 on Coconut Island, Hawaii in partnership with the National Geographic Society. The National Marine Sanctuaries Field Studies Program uses national marine sanctuaries as living classrooms to promote ocean literacy and bring oceans into America's classrooms. This program targets under-represented students, and this year's participants came from a variety of states including Missouri, Montana, New Jersey, Delaware, Georgia, North Carolina and American Samoa. Through studies of a local watershed, coral reef monitoring, Reef Environmental Education Foundation (REEF) fish count surveys, environmental monitoring and an invasive seaweed service learning project, participants expanded their sense of place, learned about the interconnectedness between the ocean and watersheds, and gained perspectives on ocean conservation and stewardship. National Geographic Society photographers worked with the students on photo documentation of their field experiences and the development of a youth media project in order to share their experiences with local communities and larger audiences. A professional evaluator also participated in this year's program to aid in the NMSP in understanding the impact of such hands-on field experiences.

MPA Center and Coastal States Organization Host Workshop on Developing National System of MPAs

During the last week of June, the National Marine Protected Areas Center, in partnership with the Coastal States Organization (CSO) hosted their third and final regional state MPA workshop entitled, "Developing State and Territory Recommendations for a National System of MPAs," at Chicago's Shedd Aquarium. The workshop helped ensure a dialogue between federal and state agencies, provided a forum for state managers to discuss coordination issues, and fostered a greater understanding about the process to develop the national system of marine protected areas. Eighteen state agency representatives (including fisheries, cultural resource, and coastal and natural resource managers) joined officials from the MPA Center, the Fish and Wildlife Service, the National Park Service, and the National Marine Sanctuary Program.

Marine Debris Program Highlighted in Ocean Conservancy Publication

NOAA's Marine Debris Program was highlighted in the Summer 2005 issue of Blue Planet, a quarterly publication of The Ocean Conservancy. The article discusses the serious threat marine debris poses to marine wildlife and ocean ecosystems and discusses what people can do to reduce the threat. NOAA's marine debris efforts were highlighted, such as the annual cleanups that take place in Hawaii. The Blue Planet article is available at:

http://www.oceanconservancy.org/site/PageServer?pagename=bpm_blueplanet (edition to be posted soon).

THREE-MONTH CHANNEL ISLANDS NATIONAL MARINE SANCTUARY CALENDAR

SEPTEMBER	
Sep 13, 14	<i>From Shore to Sea Lecture Series:</i> Connally Family, Island Packers Company Tuesday: 7:00 pm Chase Palm Park Center, 236 E. Cabrillo Blvd., Santa Barbara Wednesday: 7:00 pm Channel Islands National Park Visitor Center (1901 Spinnaker Drive in Ventura)
Sep 20, 21	<i>LiMPETS Workshop</i> For more information contact Jonna Engel (Jonna.engel@noaa.gov or 805.963.3238 x12)
Sep 22	<i>Channel Islands National Marine Sanctuary 25th Anniversary!!!</i>
Sep 23	<i>Sanctuary Advisory Council Meeting</i> Casa Las Palmas (323 E. Cabrillo Blvd. in Santa Barbara) An agenda, directions and more information will be posted at: http://www.channelislands.noaa.gov/sac/announcement.html .
Sep 29	<i>Sanctuary Anniversary Celebration at Santa Barbara Zoo (by invitation only)</i>
OCTOBER	
Oct 7	<i>Sanctuary 25th Anniversary Gala Event at the Biltmore Hotel, Santa Barbara (by invitation only)</i>
Oct 11, 12	<i>From Shore to Sea Lecture Series:</i> Dan Basta, Director NMSP & Chris Mobley, Manager, CINMS: Charting a Course for the Future Tuesday: 7:00 pm Chase Palm Park Center, 236 E. Cabrillo Blvd., Santa Barbara Wednesday: 7:00 pm Channel Islands National Park Visitor Center (1901 Spinnaker Drive in Ventura)
Oct 15	<i>Santa Barbara Harbor & Seafood Festival</i> 10:00 AM - 5:00 PM at Santa Barbara Harbor For more information: http://www.santabarbaraca.gov/Visitor/Things/Waterfront/Harbor_And_Seafood_Festival.htm
Oct 26-28	<i>Sanctuary Advisory Council Retreat at Santa Cruz Island</i>
NOVEMBER	
Nov 8, 9	<i>From Shore to Sea Lecture Series:</i> Steve Junak, Herbarium Curator, Santa Barbara Botanic Garden <i>Three decades of botanical exploration on the Channel Islands</i> Tuesday: 7:00 pm Chase Palm Park Center, 236 E. Cabrillo Blvd., Santa Barbara Wednesday: 7:00 pm Channel Islands National Park Visitor Center (1901 Spinnaker Drive in Ventura)
Nov 18	<i>Sanctuary Advisory Council Meeting</i> Channel Islands National Park Visitor Center (1901 Spinnaker Drive in Ventura) An agenda, directions and more information will be posted at: http://www.channelislands.noaa.gov/sac/announcement.html .

Learn More About Your Sanctuary

The Sanctuary Manager's Report is produced bi-monthly by the Channel Islands National Marine Sanctuary in conjunction with Sanctuary Advisory Council meetings. To learn more about the sanctuary please visit our web site at: <http://www.channelislands.noaa.gov/>.

To learn more about the Sanctuary Advisory Council please visit:
<http://www.channelislands.noaa.gov/sac/main.html>.

The National Marine Sanctuary Program

The Channel Islands National Marine Sanctuary is one of 13 marine sanctuaries in the National Marine Sanctuary Program. This program was established under the National Marine Sanctuaries Act of 1972 which authorizes the Secretary of Commerce to designate as national marine sanctuaries areas of the marine environment or Great Lakes with special national significance due to their conservation, recreational, ecological, historical, scientific, cultural, archeological, educational, or aesthetic qualities. Visit the NMSP web site at: <http://www.sanctuaries.nos.noaa.gov/>

Channel Islands National Park

To learn about Channel Islands National Park visit their web site at: <http://www.nps.gov/chis/homepage.htm>.

GET INVOLVED AND STAY INFORMED!

To learn how to get involved in the sanctuary visit:
<http://www.channelislands.noaa.gov/focus/involved.html>

Sign up for the CINMS listserv to receive email notices about upcoming sanctuary events, and public meetings of the Sanctuary Advisory Council and its working groups:
<http://www.channelislands.noaa.gov/focus/list.html>

CINMS Staff

Christopher Mobley – Sanctuary Manager
Todd Jacobs – Assistant Manager
Shauna Bingham – Volunteer and Outreach Coordinator
Jackie Buhl – Research Assistant
Julie Bursek – Education Coordinator, Oxnard Office
Amy Cale – Web Developer
Jonna Engel – Marine Reserves Outreach Specialist
Sarah Fangman – Research Coordinator
Laura Francis – Education Coordinator, Santa Barbara Office
Clare Fritzsche – CINC Volunteer Administrative Assistant
Sean Hastings – Resource Protection Coordinator
LT Julie V. Helmers – Executive Officer
Lorri Herr – Program Support Specialist
Jacklyn Kelly – Sanctuary Advisory Council and Event Specialist
Rochelle King – Administration Specialist
Charles Lara – Deckhand
Rocío Lozano de Knowlton – MERITO Community Liaison
Sarah MacWilliams – Management Plan Specialist
Michael Murray – Advisory Council and Management Plan Coordinator
Luman Moody – Vessel Captain
LTJG Kate Peet – Operations Officer
Tina Reed – Education and Outreach Administrator
Robert Schwemmer – Regional Maritime Heritage Coordinator
Natalie Senyk – Scientific Advisor
Terrence Shinn – Vessel Captain
Ben Waltenberger – Physical Scientist
Rebecca Young – Database Coordinator

CINMS Interns

Allison Chan – Resource Protection Intern

NMSP West Coast Staff

Columbine Culberg – Ocean Etiquette Program Manager/Liaison to Aquarium of the Pacific
Claire Johnson – West Coast Education Liaison
Sarah Marquis – West Coast Media Coordinator

Channel Islands Marine Sanctuary Foundation

Anna Chouteau – Executive Director

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